This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1-7. (Canceled)
- 8. (Withdrawn, Currently Amended) A method of isolating a population of human mesenchymal stem cells comprising performing density gradient centrifugation on <a href="https://www.human.com/human.c
- 9. (Canceled)
- 10. (Withdrawn, Currently Amended) The method according to claim [[9]]8, wherein said isotonic solution is Percoll® and said density is 1.068 g/ml.
- 11. (Currently Amended) A <u>population of human mesenchymal stem cells</u> obtained according to a method comprising performing density gradient centrifugation on <u>human bone marrow</u>; and isolating human mesenchymal stem cells from a fraction having a density of 1.050-1.070 g/ml, wherein the human mesenchymal stem cells make up at least 70% of the fraction.
- 12. (Canceled)
- 13. (Currently Amended) The mesenchymal stem cell of claim [[12]]11 wherein said isotonic solution is Percoll® and said density is 1.068 g/ml.
- 14. (Currently Amended) A pharmaceutical preparation comprising a <u>population of human</u> mesenchymal stem cells obtained according to a method comprising

performing density gradient centrifugation on bone marrow; and isolating human mesenchymal stem cells from a fraction having a density of 1.050-1.070 g/ml, wherein the human mesenchymal stem cells make up at least 70% of the fraction.

- 15. (Canceled)
- 16. (Currently Amended) The pharmaceutical preparation of claim [[15]]14 wherein said isotonic solution is Percoll® and said density is 1.068 g/ml.
- 17. (Previously Presented) The pharmaceutical preparation of claim 14 further comprising a pharmaceutically acceptable excipient and/or carrier.
- 18. (Canceled)
- 19. (Previously Presented) The pharmaceutical preparation of claim 16 further comprising a pharmaceutically acceptable excipient and/or carrier.
- 20. (Canceled)